GEOGRAPHIC NEWS BULLETINS

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THE NATIONAL GEOGRAPHIC SOCIETY

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Contents for Week of February 13, 1939. Vol. XVII. No. 30.

1. Barcelona, Spain's Largest City, Taken in Spanish Rebel Drive
2. Monkeys' "Pranceful Bands" Take Over Santiago Island
3. Scientists Seek Comforts of Home for Sub-Stratosphere Flying
4. Subject Index to GEOGRAPHIC NEWS BULLETINS, Volume XVII

Note to Teachers—Because so many schools and public libraries preserve copies of the GEOGRAPHIC NEWS BULLETINS for future reference, a subject index is supplied annually, listing both Bulletins and pictures. The INDEX to Volume XVII, contained in this issue, covers the 30 issues from February 14, 1938, through the current number.

Photograph from Wide World

ONE RHESUS MONKEY MAKES A ONE-RING CIRCUS

"They desire, if they have any fixed desire, to be noticed," was Kipling's verdict of the monkey folk in his Jungle Books—the chattering, scatterbrained Rhesus of Indian jungles. This uneasy playboy has a broken umbrella on his mind (Bulletin No. 2).

HOW TEACHERS MAY OBTAIN THE BULLETINS

The Geographic News Bulletins are published weekly throughout the school year (thirty issues) and will be mailed to teachers in the United States and its possessions for one year upon receipt of 25 cents (stamps or money order); in Canada, 50 cents. Entered as second-class matter, Jan. 27, 1922, Post Office, Washington, D. C., under act of March 3, 1879. Acceptance for mailing at special rate of postage provided for in section 1103, Act of Oct. 3, 1917, authorized Feb. 9, 1922. Copyright, 1939, by National Geographic Society, Washington, D. C. International copyright secured. All rights reserved. Quedan reservados todos los derechos.

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Barcelona, Spain's Largest City, Taken in Spanish Rebel Drive

BARCELONA, captured by General Franco's army, has doubled its population since the revolution began. Refugees helped to make it a city of two million; and many of the newcomers were forced to camp in parks on the city's outskirts before the Franco advance made them refugees again.

Industrial center and metropolis of Catalonia, Barcelona has for decades been also the country's most important commercial mart. In times of peace the city's large factories and small workshops turned out an amazing variety of products. Busiest industry was the manufacture of textiles, especially cotton. Engineering works, including construction of rolling stock for railways, also engaged many persons. Glass factories, chemical plants, flour mills, and fruit canneries employed thousands.

With increasing needs for munitions, however, many factories were recently turned into "war plants."

American Industry in Barcelona

Foreign manufacturers have built modern branch plants in Barcelona. Establishments for the assembly of automobiles, the bottling of soft drinks, and the preparation of chemicals and pharmaceutical supplies, and for the manufacture of shoe polish, shoe repairing machinery, and rust remover represent U. S. investments in this corner of Spain.

Barcelona's downtown parks and squares belie its industrial importance. Factory buildings and smoking chimneys rise chiefly on the city's outermost fringes. Busiest part of the busiest thoroughfare—La Rambla—is devoted to a flower market and shelves of cages containing colorful birds from distant lands. La Rambla, almost a mile of strollers' paradise rather than boulevard, links the bustling waterfront with the main square, Plaza de Cataluña. There, in the throbbing heart of the city, trams, taxis, and busses, carriages, wagons, and bicycles move in endless procession, skirting fountains, statues, and flower beds.

Sprawling on the shore, with its feet in the water, Barcelona began as a fishing village. In the Middle Ages, it outranked Venice, Genoa, and Pisa as a maritime power, trading from Egypt to the North Sea. First port of Spain, until the war, Barcelona has long ranked among the most important shipping centers of the Mediterranean. In normal times incoming ships unload mostly food, raw materials, and fuel. Outgoing cargoes consist of wine, olive oil, silk, cork, fertilizers, woolen and cotton goods.

A Town with Two Tongues

Almost three-fourths of the men in the street speak Catalan, rather than Castilian, Spain's official language. At recreational centers—bull ring, pelota court, or football field—tongues wag in Catalan. Two dailies and various weeklies are published in the regional language; and bookstore windows display modern works in Catalan.

Among wooded hills that almost completely encircle Barcelona, Mt. Tibidabo rises to a height of almost 2,000 feet behind the city. From its summit can be seen a panorama of warmly tinted villas, pine woods, scattered whitewashed hamlets and sun-splashed valleys. Off in the distance, like the turreted tower of a

UMI

Photograph courtesy I. T. & T. Co.

WHEN MONTSERRAT WAS BUILT, MOUNTAINS WERE A PROTECTION AGAINST WAR

Perched 3,000 feet above the Catalonian foothills near Barcelona, the monastery of Montserrat was a safe haven when it was founded in 976. The steep and weathered mountain heights protected its peaceful growth for almost a thousand years. Modern buildings and a funicular railway (foreground) show how it has expanded. During the campaign against Barcelona news dispatches reported that the attacking army swung around the mountain wall and marched seaward down the valley of the Llobregat River which winds into the distance (Bulletin No. 1).

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Monkeys' "Pranceful Bands" Take Over Santiago Island

A FUGITIVE from monkey land tried to break into western civilization recently, but he was captured and taken back to the jungle. The fugitive was a monkey, one of a colony of 500 Rhesus monkeys and 25 gibbons brought over from India and given a new home on Santiago Island, off Puerto Rico.

After a half-mile swim from the monkey island to the Puerto Rican mainland, he was too tired to go farther. Although a half-mile swim is something of a record for a little Rhesus, his folk are able to swing and leap across wide gaps in the tree lanes as they travel for jungle journeys fifty to a hundred feet above the ground.

Rhesus Is Sacred in India

Santiago Island received its newest population last November, when a ship from India brought the monkey immigrants to jungle quarters prepared for them by the Puerto Rico School of Tropical Medicine, and by Harvard and Columbia Universities.

The new monkey colonists will help in saving lives of humans threatened by infantile paralysis, tuberculosis, leprosy, and other diseases. The Rhesus catches these and many of the other ills of mankind; by working to cure the sick monkey, scientists gather data and experience that speed their progress in curing the same diseases in man.

Like human immigrants having to pass health tests at Ellis Island, the monkeys were carefully examined before being released on tropical Santiago Island.

Although Rhesus monkeys are sacred to members of certain religious sects in India, who disapprove of exporting them, they are the most commonly seen monkeys outside of their native country. Several thousand are imported into the United States annually, at $8 to $15 apiece, for pets, for medical research, or for zoos and circuses. Officials returning to England after service in India have taken along their Rhesus pets. The Rhesus, with tasseled cap and tin can, became familiar as the business half of the organ-grinder's musical partnership. His antics are often worth his weight in pennies.

They Kidnapped Kipling's Jungle Baby

The Rhesus, or Bengal, monkey is a hardy fellow, thriving in an outdoor cage in the United States as in the cooler parts of northern India, around Simla. In Benares he takes an important place among the monkey population of the temple of Hanuman, the black-faced monkey god.

Generally about a foot high, he belongs to a short-tailed family known as the macaques. He can count his feet as extra hands, but not his tail, for only American monkeys make a practice of hanging by their tails.

"Pranceful bands" of the monkey folk, or Bandar-log, played a villain's role in Kipling's tale of their kidnapping the man-cub, Mowgli, who was being tenderly reared by other jungle creatures. Only Kaa, the Rock Python, could bully the Bandar-log into releasing their little human captive. Some of Kipling's thumbnail portraits of the monkeys' "leaping lines" include: "Here we sit in a branchy row," and "Here we go in a flung festoon, halfway up to the jealous moon!"

Note: Numerous photographs of monkeys, in black and white and in color, illustrate "Monkey Folk," by William M. Mann, director of the National Zoological Park, Washington, D. C., published in the May, 1938 issue of the *National Geographic Magazine*. See also "Around the World for Animals," *National Geographic Magazine*, June, 1938.

Bulletin No. 2, February 13, 1939.

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medieval castle, looms the jagged mountain where clings Montserrat monastery (illustration, inside cover).

On the seaward side beyond a patchwork of sloping gardens, the city, cleft by generous strips of tree-lined avenues, spreads on a fertile plain. Spires of an old Gothic cathedral and bottlelike towers of an unfinished modern church cut the central skyline, virtually free of factory smokestacks.

Barcelona and Boston, Massachusetts, lie in almost the same latitude; yet the Mediterranean port's climate is milder than that of Charleston, South Carolina.

Note: Background material about Barcelona can be found in "Barcelona, Pride of the Catalans," in the March, 1929, *National Geographic Magazine*. Additional photographs of the former capital of Loyalist Spain are found in "We Escape from Madrid," February, 1937; "Turbulent Spain," October, 1936; "By Seaplane to Six Continents," September, 1928; and "Looking Down on Europe," March, 1925.

See also in the GEOGRAPHIC NEWS BULLETINS: "Barcelona, State and National Capital," week of November 22, 1937.

Bulletin No. 1, February 13, 1939.

Photograph by Harriet Chalmers Adams

WAR TIMES TURN TIME BACKWARD IN BARCELONA

When the Insurgent army captured sources of water supply, crippling for a short time the city's public works, street fountains again came into use. The photograph shows the fountain in the Plaza de Santa Ana. Colored tiles and coats of arms are decorative touches, above the very practical and water-saving addition of spigots instead of a gushing gargoyle's mouth.

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Scientists Seek Comforts of Home for Sub-Stratosphere Flying

TEN top-flight pioneers in a new field of aerial medicine have just launched a research program to make high-flying passengers comfortable in airplanes three and four miles above sea level. The program was opened at a series of conferences between flight surgeons at Kansas City, January 24-25.

Meanwhile test flights are being planned for the new sub-stratosphere overland plane, the Boeing 307, which has an airtight cabin specially designed for sub-stratosphere passengers.

The experiments forecast regular passenger service at high altitudes—between 17,000 and 25,000 feet above the earth. Low temperatures, low humidity, and low atmospheric pressure create special problems at these lofty altitudes—problems of ignition, de-icing, and passenger comfort.

Perfect Flying Weather Regardless of Storms Below

Lure of sub-stratosphere levels for commercial flying is perfect weather. No clouds, no fog, no rain, no storms disturb smooth sailing far up in the sky. If a violent hurricane should by any chance toss its head in these normally serene altitudes, the sub-stratosphere plane soars a little higher and hurdles right over the disturbance.

"Fair and colder" is the unvarying weather report, as the flier climbs through earth's tossing blanket of cloud, storm, and dust and emerges into the sub-zero sunlit levels of thinner atmosphere. Too cold to hold much moisture, the air is crystal clear. Sunlight unfiltered through any film of cloud or dust beats down for twelve hours every day.

As stratosphere guinea pigs, Major Albert W. Stevens and Captain Orvil Anderson tested out man's reactions to air-conditioned top-floor travel in the mammoth balloon, *Explorer II*, during the National Geographic Society-U. S. Army Stratosphere Expedition of 1935. They reached an altitude of 72,395 feet, or 13.71 miles, and spent an hour and a half at this highest point above the earth yet attained by man. Data gathered by instruments they carried in and outside their airtight, spherical gondola are now guiding plans for safe and comfortable commercial air service.

Actually, commercial planes will travel only one-third as high as the record *Explorer II* attained, leveling off at sub-stratosphere altitudes below 25,000 feet. Much higher than that, in the stratosphere proper, air is too thin to support a commercial plane; normal wings and normal propellors could not find enough air to grip.

Cooling, Rather Than Heating, Air Will Be Necessary

Chief problem in stratosphere travel for passengers is the same that would confront a fish planning a trip overland: breathing. The fish is equipped for extracting oxygen from water; man is best equipped for extracting oxygen from dense, somewhat moist air at or near sea level. At 17,400 feet, a flier has half the weight of the world's atmosphere beneath him. Atmospheric pressure is therefore so much less that molecules of air are farther apart and each lungful contains less oxygen.

To prevent oxygen starvation, sub-stratosphere planes will be sealed at an altitude around 8,000 feet, which has been chosen as the top level of conditions comfortable for the average man. No matter how much farther upward the plane may soar, the 8,000-foot atmosphere will be maintained artificially in the cabin.

Thinner air in which the plane is riding will be taken in, compressed to an 8,000-foot-altitude density, and supplied to passengers. The process of compressing air heats it, so that the sub-zero air brought in from outside will be raised to a comfortable breathing temperature. Sometimes the resulting temperature will be too high, so that cooling instead of warming will be necessary.

Sun, Unscreened by Clouds, Blazes White in Purplish-Black Sky

Other air-conditioning processes will include the removal of carbon dioxide and moisture from the cabin. The process used successfully by the National Geographic Society-U. S. Army Stratosphere Flight of 1935 provided for (1) a supply of liquid oxygen mixed with liquid nitrogen in storage flasks, which was slowly evaporated and released through a valve; and (2) the absorption of both carbon dioxide and surplus moisture by sodium hydroxide pellets exposed in gauge bags.

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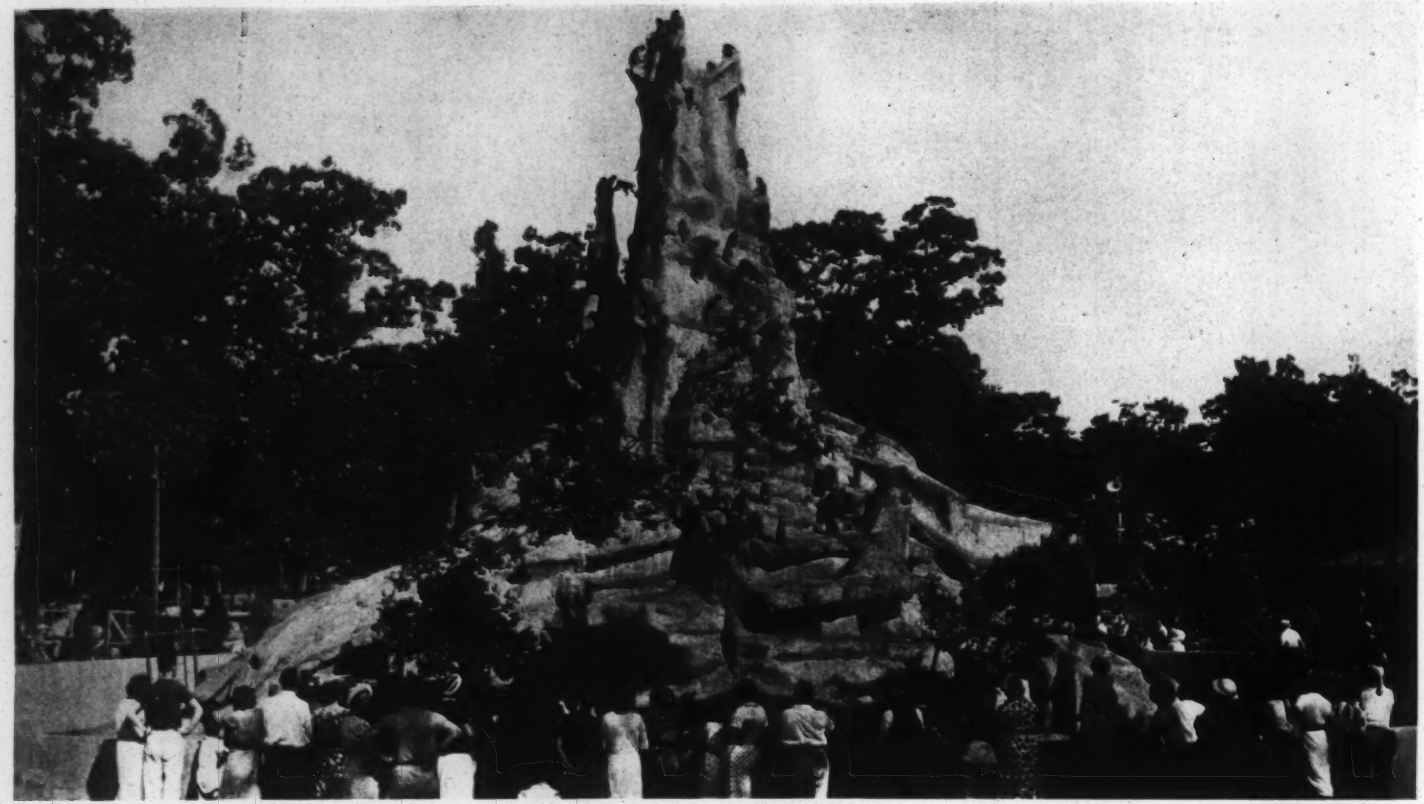


Photograph by Drennan

LONG ISLAND ALSO HAS ITS "MONKEY ISLAND"—A SIMIAN SAFETY ZONE FROM A MAN'S WORLD

The mischievous, prankish Rhesus monkey is "caged" for his own good. Escapes in the United States bring him into dangerous contact with automobiles and electricity, about which he has not learned to be cautious. This monkey island at Frank Buck's Jungle Camp at Amityville, N. Y., is isolated by a fenced moat.

INDEX TO GEOGRAPHIC NEWS BULLETINS AND ILLUSTRATIONS

Covering Volume XVII, No. 1, February 14, 1938, through No. 30, February 13, 1939

Editor's Note: Illustrations appearing with articles are not listed unless more than one illustration concerning the article appears in the same issue.

AFRICA

Belgian Congo: Albert National Park, Paradise for the Naturalist, 2 ills., Nov. 21, 1938.
Cameroons: Medieval Crusader-Type Native State Found on African Safari, Apr. 4, 1938.
Egypt: Ismailia Gave Send-Off to Record Non-Stop Flight, Nov. 28, 1938.
Eritrea: Dumeira: Italian Stopper in the Red Sea Bottleneck, 1 map, Apr. 25, 1938.
Ethiopia: Ill.: Giant lobelias in Simyen Mountains, Feb. 28, 1938.
French Somaliland: Somaliland Is France's "Railroad Station" Colony, Jan. 16, 1939.
Gold Coast: The Gold Coast, Where Cocoa Is a Gold Substitute, Mar. 7, 1938.
Libia: New Status for Italy's North African Provinces, Dec. 19, 1938.
Nigeria: Ill.: Mud house, Kano, Apr. 4, 1938.
Rei Bouba: See *Cameroons*.
Tanganyika: Tanganyika, Spectacular Keystone of East Africa, Dec. 12, 1938.
Tunisia: Tunis Again Makes African Trouble for France, May 2, 1938.
Italy Claims Assorted French Territories, 3 ills., Jan. 9, 1939.
Union of South Africa: South African Expedition Films Rare Wild Life, 2 ills., Apr. 11, 1938.
Zanzibar: Sultans Have Silver Jubilees, Too, Feb. 21, 1938.

ASIA

Arabia: See *Oman* and *Saudi Arabia*.
China: Hainan: China's Largest Island Possession, Feb. 14, 1938.
Tientsin Closes Career as U. S. Army Outpost in Orient, Mar. 7, 1938.
Suchow: Target of Tangled Battlelines of Central China, May 2, 1938.
Chinese Railroads Are Japanese Battlefronts, Oct. 3, 1938.
Invaded Kwangtung Is China's Most Fertile and Familiar Province, 2 ills., Nov. 7, 1938.
Chungking: China's Western Fortress Capital, Nov. 14, 1938.
China's "Open Door" Anxiously Eyed by Customer Nations, Nov. 28, 1938.
First Burma-Yunnan Highway Opens Another Back Door to China, Jan. 23, 1939.
Two-Mile-High Sikang, China's New Province, 2 ills., Feb. 6, 1939.
Additional ill.: Street car, Shanghai, Oct. 17, 1938.
Hong Kong: Ill.: Boats in harbor, Nov. 28, 1938.
India: Trouble in India's Border Realms, on "Wee Willie Winkie's" Frontier, Oct. 31, 1938.
Ill.: Traveling blacksmith, Burma Province, Jan. 23, 1939.
Iran: Iran Completes Its First Cross-Country Railroad, Oct. 10, 1938.
Japan: A Silk Thread Links American Worker to Oriental Worm, Feb. 21, 1938.
Additional ill.: Girls working in tea factory, Feb. 6, 1939.
See also *Taiwan*.
Manchuria: Manchuria-Manchukuo: A Double Problem in Diplomacy, 2 ills., Mar. 21, 1938.
Oman: Sultan of Oman Fêted in the United States, Mar. 28, 1938.
Palestine: Bethlehem—Traditional "City of Peace"—Has Violent History, Oct. 31, 1938.
Jerusalem Really Two Cities in One, 2 ills., Nov. 7, 1938.
Jaffa, Holy Land Home of Fruit and Fish Stories, Nov. 21, 1938.
Additional ill.: Harvesting wheat, Oct. 3, 1938.
Persia: See *Iran*.
Saudi Arabia: Ill.: Moslem shrine, Mecca, Nov. 14, 1938.
Straits Settlements: Ill.: Fruit boats in Singapore harbor, Nov. 7, 1938.
Turkey: Second President Confirms New Turkey's Modern Trend, 2 ills., Dec. 5, 1938.
Hittite Ruins and Rug-Making Mark Turkish Earthquake Area, Jan. 16, 1939.

AUSTRALIA

Australia: War over Wives Touches Darwin, Australia, Mar. 14, 1938.
Melville Island—A Proposed Jewish Haven, 2 ills., Dec. 5, 1938.
Forest Fires Sear Victoria, Smallest Australian Mainland State, Feb. 6, 1939.
See also *New Guinea*.

EUROPE

Austria: Graz, Austria—Where War Is an Old Story, Mar. 21, 1938.
Germany Plus Austria, Colossus of Central Europe, 2 ills., Apr. 4, 1938.
Belgium: Ills.: Scene at Bruges, Feb. 21, 1938; Bomb-proof shelter, Brussels, Oct. 17, 1938.
Czechoslovakia: The Sokol, National Olympic of Czechoslovakia, May 9, 1938.
Sudetens, Bone of Contention Between Czechoslovakia and Germany, 2 ills., Oct. 3, 1938.
Czechoslovakia Is a Land of Many Minorities, Oct. 10, 1938.
Teschen, Czech-Pole Problem Child, Is Little District with Big Mines, Oct. 17, 1938.
What Czechs Lose, Germans Gain, in "Sudetenland," 2 ills., Oct. 24, 1938.
Hungary Claims Czechoslovakian Region of Farms and Forests, 2 ills., Oct. 24, 1938.
Slovakia: Eastern Half of Czechoslovakia's Realm and Name, 2 ills., Oct. 31, 1938.
Border Struggle Marks Carpatho-Ukraine as Another Trouble Spot, Jan. 30, 1939.
England: Balloons Joined the Army Years Ago, Feb. 21, 1938.
Two Bostons Keep in Touch Across the Sea, 2 ills., Mar. 7, 1938.
The World Pours Food into London Port, 2 ills., Mar. 14, 1938.
Wordsworth: Homeland Geographer with Verse and "Microscope," Apr. 4, 1938.
Shottery Saved from Suburban Expansion, May 2, 1938.
Pilgrim's Progress Has Progressed Far from Bedfordshire, Oct. 3, 1938.
Poetic License Embroiders Coleridge's Geography, Nov. 14, 1938.
Oxford and Cambridge Linked by Streamliner, 2 ills., Nov. 21, 1938.
"A-Hunting We Will Go" Around the World, Dec. 5, 1938.
The Humble Herring Has New Fisherman's Luck, 2 ills., Dec. 19, 1938.

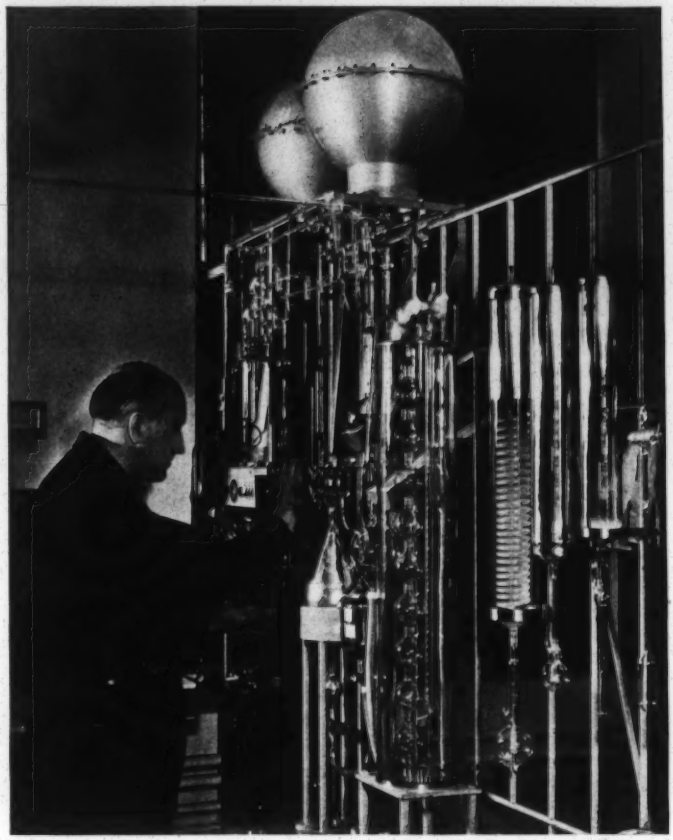
UMI

Ascent into upper levels of the air admits man into a strange new world, serene and silent. No organisms can live naturally in this rarefied air except spores of such microscopic life as molds and bacteria. The apparent blue of the sky, caused mainly by dust in the atmosphere scattering light, has deepened to purplish black. The sun's gold blazes more and more hotly until it becomes a dazzling white.

Unscreened by the heavier part of the atmospheric blanket that protects the earth's surface, ultraviolet rays pierce the thin air with more burning intensity. The earth some miles below unrolls its brown contours through a shimmering haze, its mountains reduced to mounds, its rivers to sparkling ribbons.

Note: See "First Natural-Color Photograph Taken in the Stratosphere," *National Geographic Magazine,* March, 1937; "Scientific Results of the World-Record Stratosphere Flight," with Special Supplement Showing the Division between the Troposphere and Stratosphere and also the Actual Curvature of the Earth, May, 1936; "Man's Farthest Aloft," January, 1936; and "Exploring the Stratosphere," October, 1934.

Bulletin No. 3, February 13, 1939.



Photograph by Edwin L. Wisherd

AIR FROM THE STRATOSPHERE REVEALS ITS SECRETS

During the National Geographic-U. S. Army Stratosphere Flight of 1935, Major Stevens obtained twelve gallons of thin air 72,000 feet above the earth, and brought it back to be analyzed by G. M. Shepherd of the National Bureau of Standards. The spherical containers are shown inverted over the apparatus. The air was found to contain .32 per cent more nitrogen in proportion to oxygen than sea level air, but otherwise to resemble the air we breathe in every way except density. With the data thus obtained, the laboratory has worked out a technique for supplying air that sub-stratosphere passengers can breathe without discomfort.

Virginia: The Potomac River, Where North Meets South, 2 ills., Feb. 14, 1938.
Jefferson's "Little Mountain," Monticello, Looms Large, Feb. 28, 1938.
Additional ill.: Export apples, Oct. 17, 1938.
Wisconsin: Ill.: Lead and zinc mine near Shullsburg, Oct. 10, 1938.

CENTRAL AMERICA

Guatemala: Chewing Gum Makes Uaxactun Ruins Easier To Reach, May, 9, 1938.

SOUTH AMERICA

Bolivia: Gran Chaco Peace More Than Doubles Area of Paraguay, Nov. 14, 1938.
Additional ill.: Aymará Indian at La Paz, Jan. 23, 1939.
British Guiana: Diamonds-and-Sugar Colony of British Guiana as Jewish Refuge, Dec. 12, 1938.
Chile: Ills.: Penguins on Offing Island, Strait of Magellan, Apr. 25, 1938; Fruit orchard near Molina, Jan. 30, 1939.
Colombia: Bogotá Exchanges Ambassadors with Washington, Oct. 24, 1938.
Paraguay: Gran Chaco Peace More Than Doubles Area of Paraguay, Nov. 14, 1938.
Peru: Matarani: Custom-Made Port for Southern Peru, 2 ills., Feb. 28, 1938.
Lima, Peru: Grandmother of American Capitals, Dec. 5, 1938.
Revival of Inca Empire Proposed, Jan. 9, 1939.
Surinam: Ill.: Train used on Fairchild expedition, Jan. 23, 1939.

ISLANDS

Canton: See *Phoenix Islands.*
Dumeira: See *Eritrea.*
Elba: See *Italy.*
Enderbury: See *Phoenix Islands.*
Formosa: See *Taiwan.*
Guam: Defense at Guam, Sunset Extremity of the United States, 2 ills., Jan. 30, 1939.
Hawaii: Pineapple: Globe-Trotting Fruit from America, Nov. 7, 1938.
Melville: See *Australia.*
New Guinea: Australia Would Continue as New Guinea Guardian, Nov. 7, 1938.
Philippines: Gold Rush Follows Cold Rush to Baguio in the Philippines, Mar. 21, 1938.
Sulu Archipelago: Domain of Uncle Sam's Only Mohammedan Sultan, Jan. 9, 1939.
Phoenix: Pacific Isles, Canton and Enderbury, Become Wards of Uncle Sam, 2 ills., 1 map, Mar. 28, 1938.
Lighthouse Flashes over Scene of Dark Tragedies in Phoenix Isles, 2 ills., Oct. 31, 1938.
Puerto Rico: Puerto Rico: Spanish Island under the American Flag, Oct. 10, 1938.
Monkeys' "Pranceful Bands" Take Over Santiago Island, 2 ills., Feb. 13, 1939.
Rapa: Ill.: Native girl in taro field, Mar. 28, 1938.
St. Lawrence: See *Alaska.*
St. Lucia: St. Lucia—Hit by Disaster—Was Battleground for Centuries, 2 ills., Dec. 19, 1938.
Sardinia: See *Italy.*
Sulu: See *Philippines.*
Sumatra: Ill.: Bathing at mosque, Sipirok, Nov. 14, 1938.
Taiwan (Formosa): Formosa, Japan's "Beautiful Isle," Is Both Flowery and Fierce, Mar. 14, 1938.
Tristan da Cunha: New Role for Tristan da Cunha, Erstwhile "Lonely Isles," 2 ills., Jan. 30, 1939.
West Indies: See *Puerto Rico* and *St. Lucia.*
Zanzibar: Sultans Have Silver Jubilees, Too, Feb. 21, 1938.

MAPS AND MAP MAKING

Articles: Another Job for the Aerial Camera, Apr. 11, 1938.
Sketch Maps: Northeastern China, Mar. 7, 1938; Pacific Ocean, showing location of Canton Island, Mar. 28, 1938; Red Sea islands, with inset of Arabia, Apr. 25, 1938; Southern Alaska, Oct. 3, 1938; Old map showing Roanoke Island, North Carolina, Nov. 7, 1938.

GEOGRAPHY OF LITERATURE

Bunyan: *Pilgrim's Progress* Has Progressed Far from Bedfordshire, Oct. 3, 1938.
Coleridge: Poetic License Embroiders Coleridge's Geography, Nov. 14, 1938.
Kipling: Trouble in India's Border Realms, on "Wee Willie Winkie's" Frontier, Oct. 31, 1938.
Longfellow: Longfellow: Myth-Maker for the American Map, 3 ills., Feb. 21, 1938.
Shakespeare: Shottery Saved from Suburban Expansion, May 2, 1938.
Wordsworth: Wordsworth: Homeland Geographer with Verse and "Microscope," Apr. 4, 1938.

GEOGRAPHY OF MUSIC

Verdi: Verdi Transposed Geography into Many Musical Keys, Oct. 24, 1938.
See also *Music* (*Human Geography*).

TRANSPORTATION

General: Significant Engineering Projects Completed in 1938, Jan. 16, 1939.
Speed, Distance, and Altitude Records Fall in 1938, Jan. 23, 1939.
Automobiles: Ill.: Congested traffic, Rome, Italy, Dec. 5, 1938.
Aviation: Ismailia Gave Send-Off to Record Non-Stop Flight, Nov. 28, 1938.
Chewing Gum Makes Uaxactun Ruins Easier To Reach, May 9, 1938.
Speed, Distance, and Altitude Records Fall in 1938, Jan. 23, 1939.
Additional ills.: Airplane, Iran, Oct. 10, 1938; Loading freight in airplane, New Guinea, Nov. 7, 1938; Sir Hubert Wilkins' Arctic-flight plane, Jan. 16, 1939.
See also *Aeronautics* (*Popular Science*).
Boats and Ships: The Equator Is Neptune's Tollgate, Mar. 7, 1938.
Additional ills.: *Bear of Oakland*, Potomac River, Feb. 14, 1938; Canoe, Potomac River, Feb. 14, 1938; *New Zealand Star*, Belfast, Ireland, Feb. 28, 1938; Ships at London dock, Mar. 14, 1938; Oyster

UMI

England—Continued Telephoning in England Is Different, Jan. 9, 1939.
Tea Time in England Is Reckoned in Centuries, 2 ills., Feb. 6, 1939.
France: Quaint Perpignan Now Seethes with Intrigue, Feb. 21, 1938.
The Trocadero, Paris Museum, Collects European Folk Art, Mar. 28, 1938.
Celebration for Saints Brings Gypsies to Southern France, Nov. 21, 1938.
"A-Hunting We Will Go" Around the World, Dec. 5, 1938.
Fire Sears Marseille, Second City of France, Dec. 12, 1938.
See also *French Somaliland* and *Tunisia.*
Germany: Germany Plus Austria, Colossus of Central Europe, 2 ills., Apr. 4, 1938.
Sudetens, Bone of Contention Between Czechoslovakia and Germany, 2 ills., Oct. 3, 1938.
Munich, Peace Conference City, Is "Nazi Capital," Oct. 17, 1938.
What Czechs Lose, Germans Gain, in "Sudentenland," 2 ills., Oct. 24, 1938.
With Substitute Products, Germany Edges toward Self-Sufficiency, Oct. 31, 1938.
Additional ills.: Ruhr steel mill, May 9, 1938; Canaries for export, Jan. 16, 1939.
See also *Austria.*
Greece: Ill.: Stadium, Athens, Jan. 23, 1939.
Hungary: Hungary Claims Czechoslovakian Region of Farms and Forests, 2 ills., Oct. 24, 1938.
Border Struggle Marks Carpatho-Ukraine as Another Trouble Spot, Jan. 30, 1939.
Ireland: Rift in Ireland Widens as Northerners Draw the Line, 2 ills., Feb. 28, 1938.
Italy: Verdi Transposed Geography into Many Musical Keys, Oct. 24, 1938.
Elba: Napoleon's Thumbnail Empire, Nov. 28, 1938.
Rome Is Honoring Its First Emperor, Dec. 5, 1938.
Sardinia, Coal Source for Fuel-Hungry Italy, Feb. 6, 1939.
Additional ill.: Scale model of ancient Rome, showing amphitheaters, Jan. 23, 1939.
See also *Eritrea, Libia,* and *Tunisia.*
Latvia: Latvia Carries on "Business as Usual" Despite European Tension, 2 ills., Dec. 12, 1938.
Lithuania: Ancient Lithuania Smolders about Modern Boundaries, 2 ills., Apr. 4, 1938.
Lithuania Offers Olive Branches to Germany and Poland, Nov. 14, 1938.
Netherlands: Tulip Time in The Netherlands, 2 ills., Apr. 11, 1938.
Poland: Ancient Lithuania Smolders about Modern Boundaries, 2 ills., Apr. 4, 1938.
Warsaw, New Focus of Eastern Europe, Apr. 11, 1938.
Teschen, Czech-Pole Problem Child, Is Little District with Big Mines, Oct. 17, 1938.
Scotland: Glasgow To Be Site of 1938 Empire Exhibition, Feb. 14, 1938.
Spain: Catalonia, Spain's Busiest Workshop, Cornered by Rebel Army, Apr. 25, 1938.
The Ebro Valley—Hard-Fought Spanish Front, Nov. 28, 1938.
Old Trade Routes Figure in Battle for Barcelona, Jan. 23, 1939.
Barcelona, Spain's Largest City, Taken in Spanish Rebel Drive, 4 ills., Feb. 13, 1939.
Switzerland: St. Bernard Pass Guarded by "Travelers Aid" of Monks and Dogs, Feb. 28, 1938.
Turkey: Ill.: Waterfront scene, Istanbul, Dec. 5, 1938.

POLAR REGIONS

Arctic: Men on Ice for Nine Months: Russians' Polar Camp Record, 2 ills., Mar. 14, 1938.
Explorers of 1938 Cleared Up Some of World's Remaining "Blind Spots," 3 ills., Jan. 16, 1939.
Greenland: Ills.: Eskimos, Mar. 14, 1938 and Jan. 16, 1939.

NORTH AMERICA

Alaska: Alaska's Wealth Now Recognized among Sea Treasures, May 9, 1938.
World's Largest Non-Polar Icecap Found in Alaska, 1 map, Oct. 3, 1938.
St. Lawrence Eskimos Reduce High Cost of Wooing, Dec. 19, 1938.
Canada: Niagara Falls, Famous for Ice as Well as Water, 2 ills., Feb. 14, 1938.
Additional ill.: Refueling Sir Hubert Wilkins' plane, Aklavik, Northwest Territories, Jan. 16, 1939.
Mexico: Mazatlán Has Strategic Importance as Well as Beauty, Mar. 14, 1938.
Oil and Silver, Mexico's "Double Trouble" Twins, 3 ills., Apr. 25, 1938.
Additional ill.: Ceremony in graveyard, Pátzcuaro, Dec. 19, 1938.

UNITED STATES

General: State Capitols in U. S. Built on Classic Lines, 2 ills., Mar. 7, 1938.
Regional: Northwest Territory Proved the Thirteen States "Grown Up," Apr. 11, 1938.
Landmarks Fall before Record New England Storm, 3 ills., Oct. 10, 1938.
The "Land-Poor" Rich Land of the South, 3 ills., Oct. 17, 1938.
California: Southern California Flood Washes Famous Place Names into News, Mar. 28, 1938.
John Muir's Scots Thrift Saved National Parks and Forests, 2 ills., May 2, 1938.
Ill.: Chrysanthemum garden, Nov. 21, 1938.
District of Columbia: The Potomac River, Where North Meets South, 2 ills., Feb. 14, 1938.
Finishing Touches Prepare Washington for Spring Visitors, Apr. 25, 1938.
Historic C. & O. Canal To Become a National Playground, 2 ills., Dec. 12, 1938.
Additional ill.: Testing stratosphere air at National Bureau of Standards, Feb. 13, 1939.
Florida: Florida Keys Are Keys to Sea Travel by Highway, Apr. 4, 1938.
Illinois: Ill.: Merchandise Mart, Chicago, May 2, 1938.
Kansas: Ill.: Wheat threshing, Oct. 3, 1938.
Kentucky: Ill.: Miniatures of Lincoln's birthpla ⁻, Oct. 17, 1938.
Maryland: The Potomac River, Where North Meets South, 2 ills., Feb. 14, 1938.
Historic C. & O. Canal To Become a National Playground, 2 ills., Dec. 12, 1938.
Massachusetts: Longfellow: Myth-Maker for the American Map, 3 ills., Feb. 21, 1938.
Two Bostons Keep in Touch Across the Sea, 2 ills., Mar. 7, 1938.
Additional ill.: Bridge and monument at Concord, Oct. 10, 1938.
Michigan: Ill.: Chippewa Indian chief, Feb. 21, 1938.
Mississippi: Natchez, Sleeping Beauty of the South, Mar. 21, 1938.
Additional ills.: Piles of oyster shells, Biloxi, Mar. 21, 1938; Baling cotton, Clarksville, Oct. 17, 1938.
New Jersey: Ill.: Fox hunting, Dec. 5, 1938.
New Mexico: Indians Again Repair Pueblo Bonito, Prehistoric Ghost Town, 3 ills., Nov. 28, 1938.
New York: Niagara Falls, Famous for Ice as Well as Water, 2 ills., Feb. 14, 1938.
N.E.A.'s Big Convention in Little Old New York, 2 ills., May 9, 1938.
Additional ills.: Freight train on spur track, New York City, May 2, 1938; Underground rail tracks, New York City, May 9, 1938; Monkeys at Frank Buck's Jungle Camp, Amityville, Feb. 13, 1939.
North Carolina: Port Raleigh on Roanoke Island Deeded to United States, Nov. 7, 1938.
Additional ill.: Statehouse, Raleigh, Mar. 7, 1938.
Ohio: Northwest Territory Proved the Thirteen States "Grown Up," Apr. 11, 1938.
Additional ill.: Constructing stratosphere balloon bag, Akron, Feb. 21, 1938.
Pennsylvania: Ill.: Ground-Hog Day ceremony, Quarryville, Jan. 30, 1939.
South Carolina: Charleston, Where Southern Rice Planters' Culture Flourished, Oct. 24, 1938.
Utah: Ill.: State Street and Statehouse, Salt Lake City, Mar. 7, 1938.
Vermont: Vermont, New England Exponent of States' Rights, Feb. 6, 1939.

Timber: Ills.: Sudeten Mountains, Germany, Oct. 24, 1938; Hauling Chaco lumber, South America, Nov. 14, 1938.
Weaving: Ill.: Hand-loom, Sardinia, Feb. 6, 1939.
Wheat: Wheat: The Most Strategic Grass, 2 ills., Oct. 3, 1938.
Windmills: Ill.: Boston, England, Mar. 7, 1938.
Wine: Ill.: Grapes for "château wine," Perpignan, France, Feb. 21, 1938.
Zinc: Zinc: Protector of Fellow Metals, Oct. 10, 1938.

HUMAN GEOGRAPHY

Archeology: Chewing Gum Makes Uaxactun Ruins Easier To Reach, May 9, 1938.
Indians Again Repair Pueblo Bonito, Prehistoric Ghost Town, 3 ills., Nov. 28, 1938.
Hittite Ruins and Rug-Making Mark Turkish Earthquake Area, Jan. 16, 1939.
Additional ill.: Carthaginian stone arches, Tunisia, Jan. 9, 1939.
Architecture: State Capitols in U. S. Built on Classic Lines, 2 ills., Mar. 7, 1938.
Finishing Touches Prepare Washington for Spring Visitors, Apr. 25, 1938.
Bomb-Proof Shelters Build War Fear into Architecture, Oct. 17, 1938.
Modern "Football Bowls" Are Survivals from Ancient Stadia, 2 ills., Jan. 23, 1939.
Additional ills.: Interior of church tower, Boston, England, Mar. 7, 1938; Trocadero Palace and Eiffel Tower, Paris, Mar. 28, 1938; Mud house, Kano, Nigeria, Apr. 4, 1938; Arched gate with double clock towers, Munich, Germany, Oct. 17, 1938; Plantation home, Charleston, South Carolina, Oct. 24, 1938; Stone wall built by Incas, Peru, Jan. 9, 1939.
Art: Roll Call of American Birds in The Society's Explorers' Hall, Feb. 14, 1938.
The Trocadero, Paris Museum, Collects European Folk Art, Mar. 28, 1938.
5,000 Eggs in Two Pill Boxes Bring Mosquito Biography to Artist, Jan. 9, 1939.
Additional ills.: Portrait of Paul Revere, Oct. 10, 1938; Portrait of King Henry VIII, Nov. 21, 1938.
Children: Ills.: Washington, D. C., Feb. 14, 1938; Mexican, Apr. 25, 1938; Sudeten boys, Czechoslovakia, Oct. 3, 1938; Persian babies, Oct. 10, 1938; Hungarian school children, Oct. 24, 1938; Saarbrucken, Germany, Oct. 31, 1938; Chinese, Nov. 7, 1938; French, Les Saintes Maries de la Mer, Nov. 21, 1938; Navajo papoose, Pueblo Bonito, New Mexico, Nov. 28, 1938; Australia, Dec. 5, 1938; St. Lucia, West Indies, Dec. 19, 1938; Jewish, Djerba Island, Tunisia, Jan. 9, 1939; Tristan da Cunha, Jan. 30, 1939.
Churches, Cathedrals, and Mosques: Jerusalem Really Two Cities in One, 2 ills., Nov. 7, 1938.
Additional ills.: Church tower, Boston, England, Mar. 7, 1938; Church, Strengen, Austria, Apr. 4, 1938; St. Stanislaus Cathedral, Vilna, Poland, Apr. 4, 1938; Church of the Nativity, Bethlehem, Oct. 31, 1938.
Costumes and Clothing: Ills.: Scotch piper in a kilt, Feb. 14, 1938; Indian chief, Michigan, Feb. 21, 1938; Native costumes, Zanzibar, Feb. 21, 1938; Eskimo fur garments, Mar. 14 and Dec. 19, 1938; Native chief and wife, Formosa, Mar. 14, 1938; Oriental and Occidental dress, Dairen, Manchuria, Mar. 21, 1938; Hoop-skirt dresses, Natchez, Mississippi, Mar. 21, 1938; Lithuanian girls, Apr. 4 and Nov. 14, 1938; Negro tribesmen, Kano, Nigeria, Apr. 4, 1938; Mexican children, Apr. 25, 1938; Czechoslovakian dress, May 9, 1938; Chinese soldiers, Oct. 3, 1938; Persian women, Oct. 10, 1938; Hungarian children, Oct. 24, 1938; Slovak shepherd, Oct. 31, 1938; Afridi tribesmen, Oct. 31, 1938; Slovak girls, Oct. 31, 1938; Chinese broad peaked hat, Nov. 7, 1938; Pueblo Indian, Nov. 28, 1938; Aragon countryman, Spain, Nov. 28, 1938; Provence peasant dress, France, Dec. 12, 1938; Tunisian veil and headgear, Jan. 9, 1939; Street dancers, Djibouti, French Somaliland, Jan. 16, 1939; Ceremonial headdress of Aymará Indian, La Paz, Bolivia, Jan. 23, 1939; Tea ceremony costumes, Japan, Feb. 6, 1939.
Education: N.E.A.'s Big Convention in Little Old New York, 2 ills., May 9, 1938.
Oxford and Cambridge Linked by Streamliner, 2 ills., Nov. 21, 1938.
Additional ills.: English lesson in Vienna café, Apr. 4, 1938; Children at school, Ersekcsanad, Hungary, Oct. 24, 1938; Synagogue class, Djerba Island, Tunisia, Jan. 9, 1939.
Eskimos: St. Lawrence Eskimos Reduce High Cost of Wooing, Dec. 19, 1938.
Additional ills.: Greenland, Mar. 14, 1938 and Jan. 16, 1939; Alaska, May 9, 1938.
Expeditions and Exploration: Men on Ice for Nine Months: Russians' Polar Camp Record, 2 ills., Mar. 14, 1938.
Pacific Isles, Canton and Enderbury, Become Wards of Uncle Sam, 2 ills., 1 map, Mar. 28, 1938.
Medieval Crusader-Type Native State Found on African Safari, Apr. 4, 1938.
South African Expedition Films Rare Wild Life, 2 ills., Apr. 11, 1938.
World's Largest Non-Polar Icecap Found in Alaska, 1 map, Oct. 3, 1938.
Explorers of 1938 Cleared Up Some of World's Remaining "Blind Spots," 3 ills., Jan. 16, 1939.
Flags: Ill.: United States flags on Canton Island, Mar. 28, 1938.
Forts: Ills.: Portuguese fort, Masqat, Oman, Mar. 28, 1938; Morro Castle, Puerto Rico, Oct. 10, 1938.
Fountains: Ill.: Street fountain, Barcelona, Spain, Feb. 13, 1939.
Government: Rift in Ireland as Northerners Draw the Line, 2 ills., Feb. 28, 1938.
Manchuria-Manchukuo: A Double Problem in Diplomacy, 2 ills., Mar. 21, 1938.
Pacific Isles, Canton and Enderbury, Become Wards of Uncle Sam, 2 ills., 1 map, Mar. 28, 1938.
Germany Plus Austria, Colossus of Central Europe, 2 ills., Apr. 4, 1938.
Catalonia, Spain's Busiest Workshop, Cornered by Rebel Army, Apr. 25, 1938.
Sudetens, Bone of Contention Between Czechoslovakia and Germany, 2 ills., Oct. 3, 1938.
Czechoslovakia Is a Land of Many Minorities, Oct. 10, 1938.
Munich, Peace Conference City, Is "Nazi Capital," Oct. 17, 1938.
Bogotá Exchanges Ambassadors with Washington, Oct. 24, 1938.
Slovakia: Eastern Half of Czechoslovakia's Realm and Name, 2 ills., Oct. 31, 1938.
Second President Confirms New Turkey's Modern Trend, 2 ills., Dec. 5, 1938.
New Status for Italy's North African Provinces, Dec. 19, 1938.
1938 Brought Most Sweeping Map Changes in Two Decades, 2 ills., Jan. 23, 1939.
Vermont, New England Exponent of States' Rights, Feb. 6, 1939.
Gypsies: Celebration for Saints Brings Gypsies to Southern France, Nov. 21, 1938.
History: Natchez, Sleeping Beauty of the South, Mar. 21, 1938.
Northwest Territory Proved the Thirteen States "Grown Up," Apr. 11, 1938.
Fort Raleigh on Roanoke Island Deeded to United States, Nov. 7, 1938.
Lima, Peru: Grandmother of American Capitals, Dec. 5, 1938.
Rome Is Honoring Its First Emperor, Dec. 5, 1938.
Historic C. & O. Canal To Become a National Playground, 2 ills., Dec. 12, 1938.
Modern "Football Bowls" Are Survivals from Ancient Stadia, 2 ills., Jan. 23, 1939.
Additional ills.: Portrait of Paul Revere, Oct. 10, 1938; Site of Revolutionary battle, Concord, Massachusetts, Oct. 10, 1938; British gunboats used in conquest of Tanganyika, Dec. 12, 1938.
Holidays, Celebrations, and Customs: The Equator Is Neptune's Tollgate, Mar. 7, 1938.
Thanksgiving Season "Says It" with Chrysanthemums, Nov. 21, 1938.
Celebration for Saints Brings Gypsies to Southern France, Nov. 21, 1938.
Christmas Candles Brighten Old Customs, Old Business, Dec. 19, 1938.
Ground Hog Leads Procession of Weather's False Prophets, Jan. 30, 1939.
Additional ills.: Nomads exchanging snuff bottles, Manchuria, Mar. 21, 1938; Decoration Day ceremony, Canton Island, Mar. 28, 1938; Maypole dance, Ickwell, England, Oct. 3, 1938; Bathing at mosque, Sumatra, Nov. 14, 1938; Dictating letters to public scribes, Barcelona, Feb. 13, 1939.
Houses: Jefferson's "Little Mountain," Monticello, Looms Large, Feb. 28, 1938.
Natchez, Sleeping Beauty of the South, Mar. 21, 1938.
Shottery Saved from Suburban Expansion, May 2, 1938.
Additional ills.: Paul Revere's home, Boston, Feb. 21, 1938; Battlemented houses, Masqat, Oman,

UMI

Boats and Ships—*Continued*
fleet, Chesapeake Bay, Mar. 21, 1938; Ship decoration over old doorway, Warsaw, Poland, Apr. 11, 1938; Sailing schooner, Puerto Rico, Oct. 10, 1938; Fruit boats, Singapore, Nov. 7, 1938; Freighters and rowboats, Jaffa, Palestine, Nov. 21, 1938; Boats in harbor, Hong Kong, Nov. 28, 1938; Boats and ships, Istanbul, Turkey, Dec. 5, 1938; British gunboats, Lake Tanganyika, Africa, Dec. 12, 1938; Yarmouth fishing fleet, England, Dec. 19, 1938; Ferry, Youngning Lake, China, Feb. 6, 1939.
Bridges: Niagara Falls, Famous for Ice as Well as Water, 2 ills., Feb. 14, 1938.
Additional ill.: Concord, Massachusetts, Oct. 10, 1938.
Canals: Historic C. & O. Canal To Become a National Playground, 2 ills., Dec. 12, 1938.
Additional ills.: Netherlands, Apr. 11, 1938; Egypt, Nov. 28, 1938; British Guiana, Dec. 12, 1938.
Carts: Ills.: Water-buffalo cart, Hainan Island, China, Feb. 14, 1938; Dog cart, Switzerland, Feb. 28, 1938; Mule cart, Spain, Jan. 23, 1939; Ox carts, Tristan da Cunha, Jan. 30, 1939.
Chairs: Ill.: Landing passengers in swinging chair, Mollendo, Peru, Feb. 28, 1938.
Domestic Animals: Ills.: Water buffalo and cart, Hainan Island, China, Feb. 14, 1938; Dog pulling milk-cart, Switzerland, Feb. 28, 1938; Fruit-laden burro, Lima, Peru, Dec. 5, 1938; Mule team and cart, Spain, Jan. 23, 1939; Oxen and carts, Tristan da Cunha, Jan. 30, 1939.
Funicular Railway: Ill.: Montserrat, Spain, Feb. 13, 1939.
Highways and Roads: Florida Keys Are Keys to Sea Travel by Highway, Apr. 4, 1938.
Old Trade Routes Figure in Battle for Barcelona, Jan. 23, 1939.
First Burma-Yunnan Highway Opens Another Back Door to China, Jan. 23, 1939.
Additional ills.: Buttressing a road near Landeck, Austria, Apr. 4, 1938; Modern highway near Carthaginian ruins, Tunisia, Jan. 9, 1939.
Railroads: Suchow: Target of Tangled Battlelines of Central China, May 2, 1938.
Chinese Railroads Are Japanese Battlefronts, Oct. 3, 1938.
Iran Completes Its First Cross-Country Railroad, Oct. 10, 1938.
Additional ills.: South Manchuria Railway waiting room, Dairen, Mar. 21, 1938; Underground tracks, New York City, May 9, 1938; Suez Railroad, Egypt, Nov. 28, 1938; B. & O. Railroad, Maryland, Dec. 12, 1938.
Street cars: Ills.: Shanghai, China, Oct. 17, 1938; Manouba, Tunisia, Jan. 9, 1939.
Trains: Oxford and Cambridge Linked by Streamliner, 2 ills., Nov. 21, 1938.
Additional ills.: Diesel locomotive, May 2, 1938; Freight train, New York City, May 2, 1938; New England snow train, Oct. 10, 1938; Train used on Fairchild expedition, Surinam, Jan. 23, 1939.

COMMERCE AND INDUSTRY

General: With Substitute Products, Germany Edges toward Self-Sufficiency, Oct. 31, 1938.
China's "Open Door" Anxiously Eyed by Customer Nations, Nov. 28, 1938.
Agriculture: Wheat: The Most Strategic Grass, 2 ills., Oct. 3, 1938.
The "Land-Poor" Rich Land of the South, 3 ills., Oct. 17, 1938.
Additional ills.: Stacking hay, Austria, Mar. 21, 1938; Irrigation method, California, Mar. 28, 1938; Taro field, Rapa Island, Mar. 28, 1938; Cutting wheat, China, May 2, 1938; Harvesting flax, Czechoslovakia, Oct. 24, 1938; Rice farming, China, Nov. 7, 1938; Fruit orchard, Chile, Jan. 30, 1939.
Amber: Ill.: Jewelry, Lithuania, Nov. 14, 1938.
Blacksmith Shop: Ill.: Traveling blacksmith, Burma Province, India, Jan. 23, 1939.
Cocoa: The Gold Coast, Where Cocoa Is a Gold Substitute, Mar. 7, 1938.
Copra: Ill.: Sun-drying coconut meat, Guam, Jan. 30, 1939.
Cotton: The "Land-Poor" Rich Land of the South, 3 ills., Oct. 17, 1938.
Dairy Products: Ill.: Latvia, Dec. 12, 1938.
Exhibitions: Glasgow To Be Site of 1938 Empire Exhibition, Feb. 14, 1938.
Fish and Fishing: Offshore Oil Prospecting Endangers Oyster Beds, 2 ills., Mar. 21, 1938.
Alaska's Wealth Now Recognized among Sea Treasures, May 9, 1938.
The Humble Herring Has New Fisherman's Luck, 2 ills., Dec. 19, 1938.
Flax: Ill.: Harvesting flax, Czechoslovakia, Oct. 24, 1938.
Food: The World Pours Food into London Port, 2 ills., Mar. 14, 1938.
Taro, The Elephant-Eared "Polynesian Potato," Mar. 28, 1938.
Additional ills.: Rolls and coffee in Vienna café, Apr. 4, 1938; Wienerwurst stand, Prague, Czechoslovakia, Oct. 3, 1938; Moslem pilgrim drinking tea, Nov. 14, 1938; Indian cooking corn cakes, Pueblo Bonito, New Mexico, Nov. 28, 1938; Desert soldiers drinking tea, Libia, Dec. 19, 1938.
Fruit: Pineapple: Globe-Trotting Fruit from America, Nov. 7, 1938.
Jaffa, Holy Land Home of Fruit and Fish Stories, Nov. 21, 1938.
Use Found for Uncle Sam's Surplus Prune Crop, Jan. 30, 1939.
Additional ills.: Export apples, Virginia, Oct. 17, 1938; Grapes, Hungary, Oct. 24, 1938; Tropical fruits, Bogotá, Colombia, Oct. 24, 1938; Donkey-back stock of fruit, Lima, Peru, Dec. 5, 1938; Breadfruit, St. Lucia, Dec. 19, 1938.
Imports and Exports: The World Pours Food into London Port, 2 ills., Mar. 14, 1938.
Alaska's Wealth Now Recognized among Sea Treasures, May 9, 1938.
China's "Open Door" Anxiously Eyed by Customer Nations, Nov. 28, 1938.
Additional ills.: Export apples, Virginia, Oct. 17, 1938; Export dairy products, Latvia, Dec. 12, 1938.
Ivory: Ill.: Imported elephant tusks, London, Mar. 14, 1938.
Lighthouses: Lighthouse Flashes over Scene of Dark Tragedies in Phoenix Isles, 2 ills., Oct. 31, 1938.
Linen: Ill.: Bleaching linen strips, Ulster, Ireland, Feb. 28, 1938.
Manganese: Manganese Puts Sinews in Steel, 2 ills., May 9, 1938.
Markets and Venders: Ills.: Market, Zanzibar, Feb. 21, 1938; Market day, Baguio, Philippines, Mar. 21, 1938; Child venders, Mexico, Apr. 25, 1938; Market place, Tunisia, May 2, 1938; Wienerwurst street stand, Prague, Czechoslovakia, Oct. 3, 1938; Fruit stall, Bogotá, Colombia, Oct. 24, 1938; Flower vender, Saarbrucken, Germany, Oct. 31, 1938.
Mines and Mining: Gold Rush Follows Cold Rush to Baguio in the Philippines, Mar. 21, 1938.
Oil and Silver, Mexico's "Double Trouble" Twins, 3 ills., Apr. 25, 1938.
Teschen, Czech-Pole Problem Child, Is Little District with Big Mines, Oct. 17, 1938.
Additional ills.: Lead and zinc mine, Wisconsin, Oct. 10, 1938; Salt mine, Czechoslovakia, Jan. 30, 1939.
Oil: Oil and Silver, Mexico's "Double Trouble" Twins, 3 ills., Apr. 25, 1938.
Oysters: Offshore Oil Prospecting Endangers Oyster Beds, 2 ills., Mar. 21, 1938.
Ports and Harbors: Matarani: Custom-Made Port for Southern Peru, 2 ills., Feb. 28, 1938.
Mazatlán Has Strategic Importance as Well as Beauty, Mar. 14, 1938.
The World Pours Food into London Port, 2 ills., Mar. 14, 1938.
Jaffa, Holy Land Home of Fruit and Fish Stories, Nov. 21, 1938.
Fire Sears Marseille, Second City of France, Dec. 12, 1938.
Additional ills.: Belfast, Ireland, Feb. 28, 1938; Masqat, Oman, Mar. 28, 1938; Puerto Rico, Oct. 10, 1938; Hong Kong, Nov. 28, 1938; Portoferraio, Elba, Nov. 28, 1938; Istanbul, Turkey, Dec. 5, 1938.
Pottery: Ills.: Native pottery, Mexico, Apr. 25, 1938; Jugs in market place, Tunisia, May 2, 1938.
Rice: Charleston, Where Southern Rice Planters' Culture Flourished, Oct. 24, 1938.
Rug-Making: Hittite Ruins and Rug-Making Mark Turkish Earthquake Area, Jan. 16, 1939.
Salt: Ills.: Obtaining salt from brine well, China, Nov. 14, 1938; Salt mine, Czechoslovakia, Jan. 30, 1939.
Silk: A Silk Thread Links American Worker to Oriental Worm, Feb. 21, 1938.
Silver: Oil and Silver, Mexico's "Double Trouble" Twins, 3 ills., Apr. 25, 1938.
Additional ill.: Paul Revere at his silver work, Oct. 10, 1938.
Steel: Manganese Puts Sinews in Steel, 2 ills., May 9, 1938.
Tea: Tea Time in England Is Reckoned in Centuries, 2 ills., Feb. 6, 1939.
Additional ill.: Bales of brick tea, Sikang Province, China, Feb. 6, 1939.

Earthquakes: Hittite Ruins and Rug-Making Mark Turkish Earthquake Area, Jan. 16, 1939.
Floods: Southern California Flood Washes Famous Place Names into News, Mar. 28, 1938.
Glaciers: World's Largest Non-Polar Icecap Found in Alaska, 1 map, Oct. 3, 1938.
Ice Floes: Men on Ice for Nine Months: Russians' Polar Camp Record, 2 ills., Mar. 14, 1938.
World's Largest Non-Polar Icecap Found in Alaska, 1 map, Oct. 3, 1938.
Keys: Florida Keys Are Keys to Sea Travel by Highway, Apr. 4, 1938.
Lakes: Ills.: Lake Tanganyika, Dec. 12, 1938; Youngning Lake, China, Feb. 6, 1939.
Mountains: St. Bernard Pass Guarded by "Travelers Aid" of Monks and Dogs, Feb. 28, 1938.
Additional ills.: Wasatch Range, Utah, Mar. 7, 1938; Austrian Tyrol, Apr. 4, 1938; Mountains at Pachuca, Mexico, Apr. 25, 1938; Sierra Nevada, Yosemite National Park, California, May 2, 1938; Krkonose range of Sudeten Mountains, Germany, Oct. 24, 1938; Montserrat, Spain, Jan. 23 and Feb. 13, 1939; Mountain gorge, Sikang Province, China, Feb. 6, 1939.
Rivers: Niagara Falls, Famous for Ice as Well as Water, 2 ills., Feb. 14, 1938.
The Potomac River, Where North Meets South, 2 ills., Feb. 14, 1938.
The Ebro Valley—Hard-Fought Spanish Front, Nov. 28, 1938.
Additional ill.: Potomac, Maryland, Dec. 12, 1938.
Storms: Landmarks Fall before Record New England Storm, 3 ills., Oct. 10, 1938.
Waterfalls: Niagara Falls, Famous for Ice as Well as Water, 2 ills., Feb. 14, 1938.
Additional ill.: Nevada and Vernal Falls, Yosemite National Park, California, May 2, 1938.

POPULAR SCIENCE

Aeronautics: Balloons Joined the Army Years Ago, Feb. 21, 1938.
Scientists Seek Comforts of Home for Sub-Stratosphere Flying, Feb. 13, 1939.
See also *Aviation (Transportation)*.
Engineering: Significant Engineering Projects Completed in 1938, Jan. 16, 1939.
Additional ill.: Power plant, Lérida Province, Spain, Apr. 25, 1938.
Machinery, Instruments, etc.: The Diesel Engine Looms Large on the Power Horizon, 2 ills., May 2, 1938.
Additional ills.: Double-faced clock at Monticello, Virginia, Feb. 28, 1938; Bessemer steel converter, May 9, 1938; Threshing machine, Kansas, Oct. 3, 1938; Cotton compress, Clarksville, Mississippi, Oct. 17, 1938; Sewing machine, Latvia, Dec. 12, 1938; Microscopes, National Geographic Society headquarters, Jan. 9, 1939; Fairchild aerial survey camera, Jan. 16, 1939; Apparatus used in testing stratosphere air, Washington, D. C., Feb. 13, 1939.
Medicine: Ill.: Children receiving dental attention, Tristan da Cunha, Jan. 30, 1939.
Meteorology: Landmarks Fall before Record New England Storm, 3 ills., Oct. 10, 1938.
Scientists Seek Comforts of Home for Sub-Stratosphere Flying, Feb. 13, 1939.
Photography: South African Expedition Films Rare Wild Life, 2 ills., Apr. 11, 1938.
Another Job for the Aerial Camera, Apr. 11, 1938.
Additional ill.: Fairchild aerial survey camera, Jan. 16, 1939.
Telephone: Telephoning in England Is Different, Jan. 9, 1939.

Photograph by E. Kelen from European

BARCELONA'S PUBLIC SCRIBES WORK IN SEMI-PRIVACY

Curtained booths along the street give partial protection, although Escriterio No. 3 seems to be exposed to a little coaching from the sidelines. Illiteracy in Barcelona and the rest of Spain has decreased rapidly within the past decade. But the old Spanish custom of dictating letters to a public scribe survives here and in other countries, such as Mexico and Cuba (See Bulletin No. 1).

UMI

Houses— *Continued* Mar. 28, 1938; Mud house, Kano, Nigeria, Apr. 4, 1938; Rufus Putnam house, Marietta, Ohio, Apr. 11, 1938; Miniatures of Lincoln's birthplace, Kentucky, Oct. 17, 1938; Plantation home, Charleston, South Carolina, Oct. 24, 1938; Stone house with tiled roof, Les Saintes Maries de la Mer, France, Nov. 21, 1938; Navajo hogan, Pueblo Bonito, New Mexico, Nov. 28, 1938; Thatched house on stilts, Sulu Archipelago, Jan. 9, 1939; Stone house with thatch roof, Tristan de Cunha, Jan. 30, 1939.

Indians: Indians Again Repair Pueblo Bonito, Prehistoric Ghost Town, 3 ills., Nov. 28, 1938.
Revival of Inca Empire Proposed, Jan. 9, 1939.
Additional ills.: Chippewa chief, Michigan, Feb. 21, 1938; Tarascans in graveyard ceremony, Pátzcuaro, Mexico, Dec. 19, 1938; Aymara, La Paz, Bolivia, Jan. 23, 1939.

Inns: Ills.: Ship Inn, Porlock, England, Nov. 14, 1938; Old-fashioned inn, Maryland, Dec. 12, 1938.

Languages: Ill.: Old and new Turkish lettering, Istanbul, Dec. 5, 1938.

Monasteries: Ill.: Montserrat, Spain, Feb. 13, 1939.

Museums and Libraries: The Trocadero, Paris Museum, Collects European Folk Art, Mar. 28, 1938.
N. E. A.'s Big Convention in Little Old New York, 2 ills., May 9, 1938.
Additional ill.: Campus Martius Museum, Marietta, Ohio, Apr. 11, 1938.

Music: Verdi Transposed Geography into Many Musical Keys, Oct. 24, 1938.
Additional ills.: Scotch highlander's bagpipes, Feb. 14, 1938; *Belimbau-tuyan*, Guam, Jan. 30, 1939.

National Geographic Society: Roll Call of American Birds in The Society's Explorers' Hall, Feb. 14, 1938.
Pacific Isles, Canton and Enderbury, Become Wards of Uncle Sam, 2 ills., 1 map, Mar. 28, 1938.
South African Expedition Films Rare Wild Life, 2 ills., Apr. 11, 1938.
World's Largest Non-Polar Icecap Found in Alaska, 1 map, Oct. 3, 1938.
Lighthouse Flashes over Scene of Dark Tragedies in Phoenix Isles, 2 ills., Oct. 31, 1938.
5,000 Eggs in Two Pill Boxes Bring Mosquito Biography to Art, Jan. 9, 1939.
Scientists Seek Comforts of Home for Sub-Stratosphere Flying, Feb. 13, 1939.

National Parks and Monuments: John Muir's Scots Thrift Saved National Parks and Forests, 2 ills., May 2, 1938.
Fort Raleigh on Roanoke Island Deeded to United States, Nov. 7, 1938.
Albert National Park, Paradise for the Naturalist, 2 ills., Nov. 21, 1938.
Indians Again Repair Pueblo Bonito, Prehistoric Ghost Town, 3 ills., Nov. 28, 1938.

Races and Tribes: War over Wives Touches Darwin, Australia, Mar. 14, 1938.
Czechoslovakia Is a Land of Many Minorities, Oct. 10, 1938.
Trouble in India's Border Realms, on "Wee Willie Winkie's" Frontier, Oct. 31, 1938.
Slovakia: Eastern Half of Czechoslovakia's Realm and Name, 2 ills., Oct. 31, 1938.
Sulu Archipelago: Domain of Uncle Sam's Only Mohammedan Sultan, Jan. 9, 1939.
Additional ills.: Native chief and wife, Formosa, Mar. 14, 1938; Igorot natives, Baguio, Philippines, Mar. 21, 1938; Congo woman, Nov. 21, 1938.
See also *Eskimos, Gypsies,* and *Indians.*

Religion: Jerusalem Really Two Cities in One, 2 ills., Nov. 7, 1938.
"Moslem World" Includes One of Every Ten Persons on Earth, 3 ills., Nov. 14, 1938.

Resorts: Ills.: Coney Island Beach, New York, May 9, 1938; Spindleruv Mlyn, Germany, Oct. 24, 1938.

Sports, Games, and Dances: The Sokol, National Olympic of Czechoslovakia, May 9, 1938.
Jai Alai, "Fastest Indoor Sport," Wins New Followers, Oct. 17, 1938.
"A-Hunting We Will Go" Around the World, Dec. 5, 1938.
Modern "Football Bowls" Are Survivals from Ancient Stadia, 2 ills., Jan. 23, 1939.
Additional ills.: Canoeing on Potomac River, Feb. 14, 1938; Maypole dance, Ickwell, England, Oct. 3, 1938; Skiers on snow train, New England, Oct. 10, 1938; Oxford students on walking tour, Nov. 21, 1938; Street dancers, Djibouti, French Somaliland, Jan. 16, 1939.

Statues and Monuments: Ills.: Statue of Zebulon Baird Vance, Raleigh, North Carolina, Mar. 7, 1938; Lion emblem of Czechoslovakian nation, Oct. 10, 1938; Stone cross of the wandering saints, Les Saintes Maries de la Mer, France, Nov. 21, 1938.

Weapons: Ills.: Weapon of Formosa chief, Mar. 14, 1938; Spears of Australian warriors, Mar. 14, 1938; Chinese soldiers' rifles, Oct. 3, 1938; Knives, swords, and rifles of Afridi tribesmen, Oct. 31, 1938; Desert soldiers' guns, Libia, Dec. 19, 1938.

NATURAL HISTORY

Birds: Roll Call of American Birds in The Society's Explorers' Hall, Feb. 14, 1938.
South African Expedition Films Rare Wild Life, 2 ills., Apr. 11, 1938.
The Penguin Is a Paradox of the Animal Kingdom, Apr. 25, 1938.
Canary Bird: That Handful of Singing Sunshine, Jan. 16, 1939.
Additional ills.: Bird colony, Enderbury Island, Mar. 28, 1938; Canaries tested for ventilation of bomb-proof shelter, Brussels, Oct. 17, 1938; Man-o'-war bird, Canton Island, Oct. 31, 1938.

Crustaceans: Ill.: Hermit crabs, Canton Island, Oct. 31, 1938.

Flowers: Tulip Time in The Netherlands, 2 ills., Apr. 11, 1938.
Thanksgiving Season "Says It" with Chrysanthemums, Nov. 21, 1938.

Insects: A Silk Thread Links American Worker to Oriental Worm, Feb. 21, 1938.
5,000 Eggs in Two Pill Boxes Bring Mosquito Biography to Artist, Jan. 9, 1939.

Mammals: St. Bernard Pass Guarded by "Travelers Aid" of Monks and Dogs, Feb. 28, 1938.
South African Expedition Films Rare Wild Life, 2 ills., Apr. 11, 1938.
Albert National Park, Paradise for the Naturalist, 2 ills., Nov. 21, 1938.
"A-Hunting We Will Go" Around the World, Dec. 5, 1938.
Ground Hog Leads Procession of Weather's False Prophets, Jan. 30, 1939.
Monkeys' "Pranceful Bands" Take Over Santiago Island, 2 ills., Feb. 13, 1939.
Additional ills.: Water buffalo, Hainan Island, China, Feb. 14, 1938; Dog mascot of expedition, Enderbury Island, Mar. 28, 1938; Bears, California, May 2, 1938; Camels, donkeys, and goats, Bethlehem, Oct. 31, 1938; Dugong, Australia, Dec. 5, 1938; Camel, Libian desert, Dec. 19, 1938; Llamas, Peru, Jan. 9, 1939; White wolf, Greenland, Jan. 16, 1939; Cattle, Vermont, Feb. 6, 1939.

Mollusks: Offshore Oil Prospecting Endangers Oyster Beds, 2 ills., Mar. 21, 1938.

Plants: Odd Plants Rival Freaks of Animal World, Feb. 28, 1938.
Taro, The Elephant-Eared "Polynesian Potato," Mar. 28, 1938.
Additional ill.: Tree-ferns, Australia, Feb. 6, 1939.

Reptiles: Ill.: Bearded lizard, Melville Island, Australia, Dec. 5, 1938.

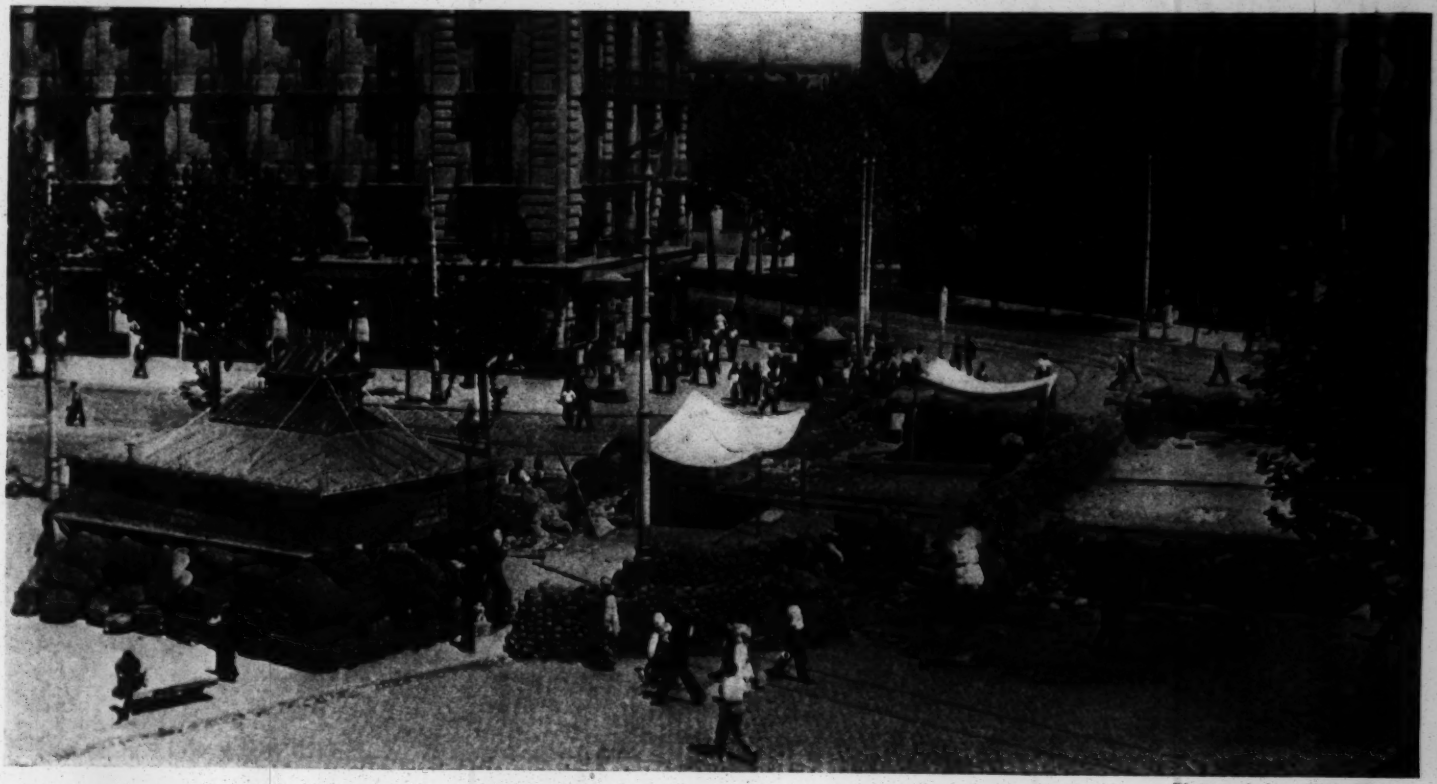
Trees: John Muir's Scots Thrift Saved National Parks and Forests, 2 ills., May 2, 1938.
Additional ills.: Cacao tree, Mar. 7, 1938; Live oak, Charleston, South Carolina, Oct. 24, 1938; Mauritia palm, British Guiana, Dec. 12, 1938; Leaves of *Cocoloba pubescens,* St. Lucia, Dec. 19, 1938; Breadfruit, St. Lucia, Dec. 19, 1938; Eucalyptus, Australia, Feb. 6, 1939.

PHYSICAL GEOGRAPHY

Boundaries: Ancient Lithuania Smolders about Modern Boundaries, 2 ills., Apr. 4, 1938.
Sudetens, Bone of Contention Between Czechoslovakia and Germany, 2 ills., Oct. 3, 1938.
Teschen, Czech-Pole Problem Child, Is Little District with Big Mines, Oct. 17, 1938.
Gran Chaco Peace More Than Doubles Area of Paraguay, Nov. 14, 1938.
1938 Brought Most Sweeping Map Changes in Two Decades, 2 ills., Jan. 23, 1939.
Border Struggle Marks Carpatho-Ukraine as Another Trouble Spot, Jan. 30, 1939.

Coral Rock: Ill.: Enderbury Island, Mar. 28, 1938.

Deserts: Ill.: Oasis in Libian Desert, Dec. 19, 1938.



Photograph from Wide World

HASTILY CONSTRUCTED BARRICADES SCAR BARCELONA'S BROADWAY

The Paralelo is usually a primrose path to night life—theaters, cabarets, and restaurants, as advertised on the poster-covered column on the intersection's northwest corner. Early in Spain's civil war paving stones were torn up for barricades, piled with sand bags and cotton bales. In time of peace, the manufacture of cotton textiles is the leading industry of Spain's leading industrial city (Bulletin No. 1).